

Features

- · 4-Channel Uni-directional ESD Diode
- · Ultra Low Leakage
- · Ultra Low Capacitance
- · Low Clamping Voltage
- · Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

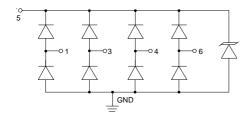
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
ESDLC0524P3	524		

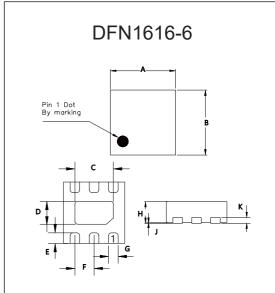
IEC61000-4-2 (ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) (5/50ns)		80A
Peak Pulse Current (8/20μs)	I _{PP}	17
Peak Pulse Power (8/20µs)	P _{PK}	230W

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

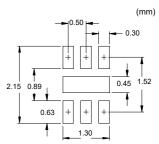


ESD Protection Device



DIMENSIONS						
INCHES		MM		NOTE		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.061	0.065	1.55	1.65		
В	0.061	0.065	1.55	1.65		
С	0.035	0.041	0.90	1.05		
D	0.020	0.026	0.50	0.65		
Е	0.008	0.012	0.20	0.30		
F	0.0)20	0.	50	TYP.	
G	0.008	0.012	0.20	0.30		
Η	0.020	0.024	0.50	0.60		
J	0.000	0.002	0.00	0.05		
K	0.006		0.1	5	TYP.	

SUGGESTED SOLDER PAD LAYOUT



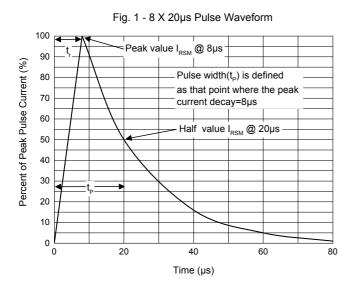


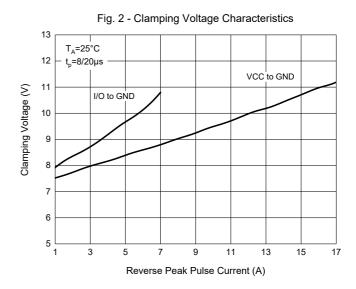
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

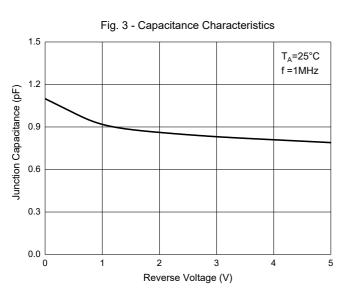
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6.5	7.5	9	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs (I/O-GND)			9.5	V
Clamping Voltage	V _C	I _{PP} =7A, t _P =8/20μs (I/O-GND)			14	V
Clamping Voltage	V _C	I _{PP} =17A, t _P =8/20μs (Vcc-GND)			14	V
Junction Capacitance	CJ	V _R =0V, f=1MHz (I/O to GND)		1.1	1.3	pF
Junction Capacitance	CJ	V _R =0V, f=1MHz (I/O to I/O)		0.6	0.7	pF

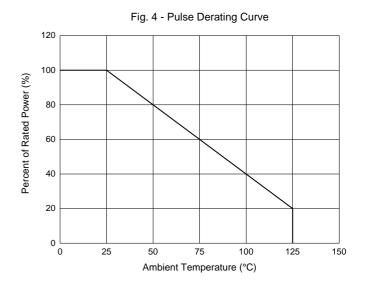


Curve Characteristics











Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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